

Name : \_\_\_\_\_

## Expand: Algebraic Identities

Expand each expression using algebraic identities.

1)  $(5m - 4n)(25m^2 + 20mn + 16n^2)$

2)  $\left(1 + \frac{3}{p}\right)^3$

3)  $(2a^2 + 5)^3$

5)  $\left(b + \frac{9}{c}\right)\left(b^2 - \frac{9b}{c} + \frac{81}{c^2}\right)$

7)  $(b + 5cd)^3$

9)  $(g - 8h)(g^2 + 8gh + 64h^2)$

10)  $(8 - uv)^3$

$\dots^2 + 16)$

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$\dots \cdot 49k^2)$